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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:  
U.S. Patent No: 6,863,792 B1

Inventors: Madou et al.

Issued: March 8, 2005

Serial No.: 09/975,475

Examiner: William T. Leader

Group Art Unit: 1742

Title: METHOD OF MAKING ELECTROCHEMICAL DETECTORS BASED  
ON IRIIDIUM OXIDE

Docket No.: OSU1159-140A

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

<b>CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8 (A)</b>	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	Date of Deposit: <u>March 23, 2005</u> <u>Trisha M. Beachy</u> Trisha M. Beachy, Paralegal

Sir:

**REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT**  
**TO 37 C.F.R. 1.322**

Transmitted herewith is a Certificate of Correction for the above-identified patent. Upon reviewing the patent, the patentee noted that the following typographical errors were made by the Patent and Trademark Office, which should be corrected as follows:

In section (56), Referenced Cited, Other Publications, please delete  
"Hitchman, M. et al., "Evaluation of Iridium Oxide Electrodes Formed by Potential

Cycling as pH Probes", *Analyst*, 113 35 (1988). " and insert -- Hitchman, M. et al., "Evaluation of Iridium Oxide Electrodes Formed by Potential Cycling as pH Probes", *Analyst*, 113, 35 (1988). --.

In section (57), Abstract, please delete "A conductive oxide solid formed through an electrochemical process. The resulting solid predominantly contains oxides of the highest oxidation state. Additionally, the solid can be thick, uniform, stable across a wide range of acidity and temperature, fully hydrated, and conductive with a very low redox potential. A preferred embodiment is an iridium solid formed at high temperature in molten carbonate, said solid containing intercalated lithium. The solid has application as an electrode with reduced drift. An electrochemical acidity sensor is disclosed which pairs an electrode bearing the solid with a reference electrode. Additionally, sensor apparatuses for measuring carbon dioxide and other materials as well as methods for measuring materials using an embedded acidity sensor are disclosed." and insert -- A conductive oxide solid formed through an electrochemical process. The resulting solid predominantly contains oxides of the highest oxidation state. Additionally, the solid can be thick, uniform, stable across a wide range of acidity and temperature, fully hydrated, and conductive with a very low redox potential. A preferred embodiment is an iridium oxide solid formed at high temperature in molten carbonate, said solid containing intercalated lithium. The solid has application as an electrode with reduced drift. An electrochemical acidity sensor is disclosed which pairs an electrode bearing the

solid with a reference electrode. Additionally, sensor apparatuses for measuring carbon dioxide and other materials as well as methods for measuring materials using an embedded acidity sensor are disclosed. --.

In column 1, line 34, please delete "(MOES)" and insert -- (MOEs) --.

In column 2, lines 53-54, please delete "ionizable- OH" and insert -- ionizable -OH --.

In column 2, line 62, please delete "-H" and insert -- -OH --.

In column 3, line 43, please delete "steps, for" and insert -- steps for --.

In column 4, line 10, please delete "purity>99%" and insert -- purity >99% --.

In column 4, line 41, please delete "Li+ions" and insert -- Li+ ions --.

In column 4, line 52, please delete "potental" and insert -- potential --.

In column 6, line 1, please delete "oxygen,from" and insert -- oxygen from --.

In column 7, line 9, please delete " $O_2(\text{diss.}) + 2CO_3^{2-} = 2O_2^{2-\square} + 2CO_2$ " and insert --  $O_2(\text{diss.}) + 2CO_3^{2-} = 2O_2^{2\square} + 2CO_2$  --.

In column 8, line 15, please delete " $HNO_3^- HCl^- H_2O$ " and insert --  $HNO_3^- HCl^- H_2O$  --.

In column 10, line 16, please delete "by-a" and insert -- by a --.

In column 10, line 28, please delete "Leydenjar-like" and insert -- Leyden-jar-like --.

In column 10, line 30, please delete "change:" and insert -- change. --.

In column 14, line 8, please delete "*Conosion*" and insert -- *Corrosion* --.

In column 14, line 27, please delete "5,86(1981)." and insert -- 5, 86 (1981). --.

In column 14, line 31, please delete "131,1089" and insert -- 131, 1089 --.

In column 14, line 32, please delete "39,137" and insert -- 39,137 --.

In column 14, line 56, please delete "211(1998)." and insert -- 211 (1998). --.

In column 14, line 67, please delete "462,127" and insert -- 452, 127 --.

In column 15, line 6, please delete "(1/96) " and insert -- (1/96) --.

A review of the Application as submitted and thereafter as amended, confirms that the errors were made in the printing of the patent.

Since the above noted errors for which a Certificate of Correction is sought were a result of Patent Office mistake, no fee is due (35 U.S.C. § 254). Approval of the Certificate of Correction respectfully is solicited.

Respectfully submitted,

Date: March 23 2005

By: Michael Stonebrook

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

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INVENTOR(S) : Madou et al.

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PATENT NO. 6,863,792 B1

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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